

Patent Abstracts of Japan

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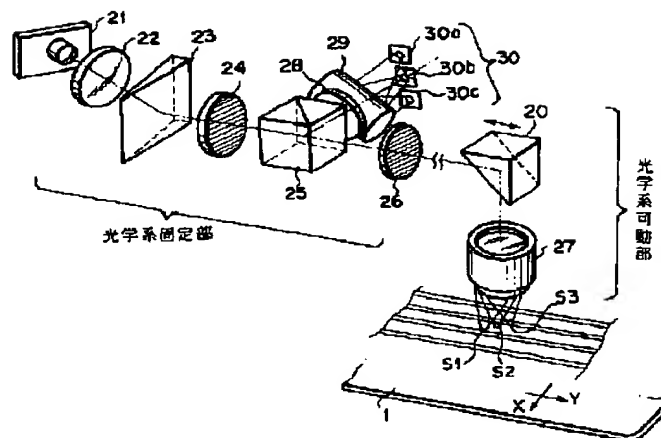
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TITLE : OPTICAL INFORMATION RECORDING AND REPRODUCING DEVICE



ABSTRACT : PROBLEM TO BE SOLVED: To eliminate fluctuation of autofocusing and to obtain a good picture by making the direction of traversing a track image generated on a sensor coincident with the direction of traversing a dividing line of a quadripartite sensor when a light spot traverses a track.

SOLUTION: When an objective lens 27 traverses a track, reflected flux from an optical card 1 is moved in the direction of X. At this time, the track image to move on the sensor 30 is moved in accordance with expressions as shown in the figure, which are decided by operating coeffts. of a spherical lens 28 and a cylindrical lens 29 and an angle α of a generating line of the cylindrical lens with a track. Now, when focal distances of the individual lenses and a distance between the spherical lens 28 and the sensor 30 are specified and the calculation is performed, an angle θ formed by the moving direction of a track on the sensor 30 with a Y-axis is $\theta = \alpha$. By deciding the shape of the sensor in accordance with this result, even when the objective lens 27 traverses the track, the moving direction of the track image can be made to coincide with the quadripartite lines.

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